

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

To:

100011

22/F, Great Eagle Centre, 23 Harbour  
Road, Wanchai, HONG KONG, P.R. China  
CHINA PATENT AGENT (H.K.) LTD

REC'D 20 MAY 2006

PCT

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PCT

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43 bis.1)

Date of mailing

(day/month/year) 15 JUN 2006 (15.06.2006)

Applicant's or agent's file reference

FPEL05150044

FOR FURTHER ACTION

see paragraph 2 below

International application No.

PCT/CN2005/001594

International filing date (day/month/year)

28.Sep 2005(28.09.2005)

Priority date (day/month/year)

International Patent Classification (IPC) or both national classification and IPC

G06F15/16(2006.01) i

Applicant

INTEL CORPORATION et al

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

### 2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

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For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/CN

The State Intellectual Property Office, the  
P.R.China 6 Xitucheng Rd., Jimen Bridge,  
Haidian District, Beijing, China 100088  
Facsimile No. 86-10-62019451

Date of completion of this opinion

22.May 2006(22.05.2006)

Authorized officer



Telephone No. 86-10-62064944

Form PCT/ISA/237(cover sheet)(April 2005)

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.  
PCT/CN2005/001594

Box No. I Basis of the opinion

1. With regard to the language, this opinion has been established on the basis of:
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  - ☐ a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
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4. Additional comments:

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.  
PCT/CN2005/001594

**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

**1. Statement:**

Novelty (N)	Claims 1-22	YES
	Claims	NO
Inventive step (IS)	Claims 1-22	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-22	YES
	Claims	NO

**2. Citations and explanations**

(1) The documents cited in the search report have been taken into consideration here:

D1: JP9062580A

D2: JP2000259495A

D3: WO0101272A2

(2) D1 discloses a apparatus which has multiple processors connected in parallel with coupling network. Each processors are connected with their respective cache memory and main memory. When a predetermined command issue is performed by a particular processor, the data block in respective cache memory is retained based on command issue. For example, when a processor (10) performs 'STORE' instruction, the data is stored in a cache memory (11). Improves efficiency. Reduces traffic of coupling network, interactive.

D2 relates to improve the hit rate of a cache memory by fetching data related to an invalid entry in the cache memory of a present processor when exchanging these data between the other processor and a shared memory. SOLUTION: A decoder 32 monitors a system bus 1 and decodes various commands flowing on the system bus 1 and when there is a read command issued from other processors 4, 5..., this is detected. A comparator 33 compares an address shown by the read command flowing on the system bus 1 with a data entry stored in a cache memory 31 and detects the coincident entry. When the data entry is coincident and the data entry in the cache memory 31 is invalid, a cache write waiting mechanism 34 waits the flow of read data, which are transferred between the other processor and a main memory 2, on the system bus 1, these data are fetched and written in the cache memory 31 and the invalid entry is validated.

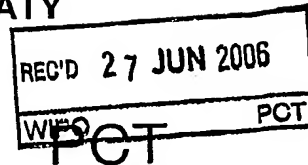
D3 disclose a parser subsystem (301) which examines the accepted data packet (302) in packet buffer, using pattern recognition unit (304) and extracts selected characteristic portions from the packet. Flow key (312) identifies conversation flow sequence of accepted packet. A database (324) stores flow entry data of identified sequence from which protocols and conversational flow states of accepted packet is to be determined. A packet from the packet acquisition device connected to the connection point of the network, is accepted by the packet buffer memory. The extraction operations to determine the protocols used in the data packets are stored in extraction operations memory to which parser subsystem is connected. A look-up engine (314) connected to the parser subsystem and flow entry database (324) determines selected characteristics of the accepted packet, if conversational flow sequence of accepted packet is stored in database. A state processor instruction database in which specific state transition patterns and state operations are stored to indicate the dependence between conversational flow sequence and particular application program. A protocol identification mechanism (318) determines the protocol and flow states of the packet. State processor (328) coupled to database (324) and identification engine performs state operations of the protocols to identify the application program associated with conversational flow sequence of packet and updates the flow entry if state operations are completed.

It is obvious that not all the technical features in claims 1-22 are disclosed by D1, D2 or D3, and further the technical solutions claimed are not obvious to a person skilled on the basis of D1, D2, D3 or their combination. Thus, claims 1-22 have novelty under PCT Article 33(2), and have inventive step under PCT Article 33(3);

Claims 1-22 have industrial applicability under PCT Article 33(4), because the technical scheme claimed can be made or used in the industry.

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY



To:

see form PCT/ISA/220

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing  
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference  
see form PCT/ISA/220

**FOR FURTHER ACTION**  
See paragraph 2 below

International application No.  
PCT/AT2005/000621

International filing date (day/month/year)  
26.10.2005

Priority date (day/month/year)

International Patent Classification (IPC) or both national classification and IPC  
INV. B28D1/12 B23D61/12 B23D61/18

Applicant  
PUCETTI, Mario

**1. This opinion contains indications relating to the following items:**

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(I) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

**2. FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1b/s(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

**3. For further details, see notes to Form PCT/ISA/220.**

Name and mailing address of the ISA:



European Patent Office - P.B. 5818 Patentlaan 2  
NL-2280 HV Rijswijk - Pays Bas  
Tel. +31 70 340 - 2040 Tx: 31 651 epo nl  
Fax: +31 70 340 - 3016

Date of completion of  
this opinion

see form  
PCT/ISA/210

Authorized Officer

Rijks, M

Telephone No. +31 70 340-3950



**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.  
PCT/IT2005/000621

---

**Box No. I Basis of the opinion**

---

1. With regard to the language, this opinion has been established on the basis of:
  - ☐ the international application in the language in which it was filed
  - ☒ a translation of the international application into english , which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1 (b)).
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    - ☐ on paper
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4. Additional comments:

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.  
PCT/IT2005/000621

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**Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

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**1. Statement**

Novelty (N)	Yes: Claims	10
	No: Claims	1-9,11,12
Inventive step (IS)	Yes: Claims	
	No: Claims	1-12
Industrial applicability (IA)	Yes: Claims	1-12
	No: Claims	

**2. Citations and explanations**

**see separate sheet**

**Re Item V.**

1 Reference is made to the following documents:

D1 : WO 2005/075142 A (SHINHAN DIAMOND INDUSTRIAL CO., LTD; SONG,  
MIN SEOK; PARK, MUN SEOK; K) 18 August 2005 (2005-08-18)

D2 : US 4 407 263 A (MURATA ET AL) 4 October 1983 (1983-10-04)

**2 INDEPENDENT CLAIM 1**

2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

2.2 Document D1 discloses (the references in parentheses applying to this document):

a blade (210, cf. figures 7-20) for sawing stone material (cf. the description, col. 1, lines 5-8) comprising, on both side surfaces and the cutting edge surface (cf. in particular figures 11-13), recesses (220, 220a, 220b, 220c, 220d) able to receive abrasive material (240a, 240b, 240a1, 240a2, 240a3, 240a4, 240b1, 240b2).

2.3 Hence, document D1 discloses all the features of independent claim 1.

2.4 Document D2 discloses (the references in parentheses applying to this document):

a blade (4) for sawing stone material (cf. the description, par. [2]) comprising, on both side surfaces and the cutting edge surface (cf. figures 3-14), recesses (5a, 5b, 6a, 6b) able to receive abrasive material (7,10,11,12,13,15).

2.5 Hence, document D2 also discloses all the features of independent claim 1.

**3 DEPENDENT CLAIMS**

- 3.1 Dependent claims 2-9, 11 and 12 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty, because document D1 also discloses all the additional features of dependent claims 2-9, 11 and 12.
- 3.2 Dependent claim 10 does not contain any features which, in combination with the features of any claim to which it refers, meet the requirements of the PCT in respect of inventive step, the reasons being as follows:

An elliptical shape is merely one of several straightforward shapes for a recess from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill, in order to solve the problem (improving performance and service life of the tool) posed (cf. document D1, description, pages 11 and 12, paragraphs [52], [53] and [54]).



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CHINA PATENT AGENT (H.K.) LTD

REC'D 20 MAY 2006

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Date of mailing

15 JUN 2006 15.06.2006

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FPEL05150044

FOR FURTHER ACTION

see paragraph 2 below

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PCT/CN2005/001594

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28.Sep 2005(28.09.2005)

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G06F15/16(2006.01) i

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Name and mailing address of the ISA/CN

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P.R.China 6 Xitucheng Rd., Jimen Bridge,  
Haidian District, Beijing, China 100088  
Facsimile No. 86-10-62019451

Date of completion of this opinion

22.May 2006(22.05.2006)

Authorized officer



Telephone No. 86-10-62064944

WRITTEN OPINION OF THE  
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International application No.  
PCT/CN2005/001594

**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

**1. Statement:**

Novelty (N)	Claims 1-22	YES
	Claims	NO
Inventive step (IS)	Claims 1-22	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-22	YES
	Claims	NO

**2. Citations and explanations**

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D1: JP9062580A

D2: JP2000259495A

D3: WO0101272A2

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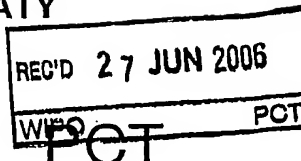
D3 disclose a parser subsystem (301) which examines the accepted data packet (302) in packet buffer, using pattern recognition unit (304) and extracts selected characteristic portions from the packet. Flow key (312) identifies conversation flow sequence of accepted packet. A database (324) stores flow entry data of identified sequence from which protocols and conversational flow states of accepted packet is to be determined. A packet from the packet acquisition device connected to the connection point of the network, is accepted by the packet buffer memory. The extraction operations to determine the protocols used in the data packets are stored in extraction operations memory to which parser subsystem is connected. A look-up engine (314) connected to the parser subsystem and flow entry database (324) determines selected characteristics of the accepted packet, if conversational flow sequence of accepted packet is stored in database. A state processor instruction database in which specific state transition patterns and state operations are stored to indicate the dependence between conversational flow sequence and particular application program. A protocol identification mechanism (318) determines the protocol and flow states of the packet. State processor (328) coupled to database (324) and identification engine performs state operations of the protocols to identify the application program associated with conversational flow sequence of packet and updates the flow entry if state operations are completed.

It is obvious that not all the technical features in claims 1-22 are disclosed by D1,D2 or D3 , and further the technical solutions claimed are not obvious to a person skilled on the basis of D1,D2,D3 or their combination. Thus, claims 1-22 have novelty under PCT Article 33(2), and have inventive step under PCT Article 33(3) ;

Claims 1-22 have industrial applicability under PCT Article 33(4), because the technical scheme claimed can be made or used in the industry.

# PATENT COOPERATION TREATY

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INTERNATIONAL SEARCHING AUTHORITY



To: \*

see form PCT/ISA/220

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing  
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference  
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**FOR FURTHER ACTION**  
See paragraph 2 below

International application No.  
PCT/AT2005/000621

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26.10.2005

Priority date (day/month/year)

International Patent Classification (IPC) or both national classification and IPC  
INV. B28D1/12 B23D61/12 B23D61/18

Applicant  
PUCETTI, Mario

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For further options, see Form PCT/ISA/220.

**3. For further details, see notes to Form PCT/ISA/220.**

Name and mailing address of the ISA:



European Patent Office - P.B. 5818 Patentlaan 2  
NL-2280 HV Rijswijk - Pays Bas  
Tel. +31 70 340 - 2040 Tx: 31 651 epo nl  
Fax: +31 70 340 - 3016

Date of completion of  
this opinion

see form  
PCT/ISA/210

Authorized Officer

Rijks, M

Telephone No. +31 70 340-3950



**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.  
PCT/IT2005/000621

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**Box No. I Basis of the opinion**

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INTERNATIONAL SEARCHING AUTHORITY**

International application No.  
PCT/IT2005/000621

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**Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or  
Industrial applicability; citations and explanations supporting such statement**

---

**1. Statement**

Novelty (N)	Yes: Claims	10
	No: Claims	1-9,11,12
Inventive step (IS)	Yes: Claims	
	No: Claims	1-12
Industrial applicability (IA)	Yes: Claims	1-12
	No: Claims	

**2. Citations and explanations**

**see separate sheet**

**Re Item V.**

- 1 Reference is made to the following documents:

D1 : WO 2005/075142 A (SHINHAN DIAMOND INDUSTRIAL CO., LTD; SONG, MIN SEOK; PARK, MUN SEOK; K) 18 August 2005 (2005-08-18)

D2 : US 4 407 263 A (MURATA ET AL) 4 October 1983 (1983-10-04)

**2 INDEPENDENT CLAIM 1**

- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

- 2.2 Document D1 discloses (the references in parentheses applying to this document):

a blade (210, cf. figures 7-20) for sawing stone material (cf. the description, col. 1, lines 5-8) comprising, on both side surfaces and the cutting edge surface (cf. in particular figures 11-13), recesses (220, 220a, 220b, 220c, 220d) able to receive abrasive material (240a, 240b, 240a1, 240a2, 240a3, 240a4, 240b1, 240b2).

- 2.3 Hence, document D1 discloses all the features of independent claim 1.

- 2.4 Document D2 discloses (the references in parentheses applying to this document):

a blade (4) for sawing stone material (cf. the description, par. [2]) comprising, on both side surfaces and the cutting edge surface (cf. figures 3-14), recesses (5a, 5b, 6a, 6b) able to receive abrasive material (7,10,11,12,13,15).

- 2.5 Hence, document D2 also discloses all the features of independent claim 1.

**3 DEPENDENT CLAIMS**